Amendments to the Claims

1. (Currently amended) A coolant nozzle for use on a machine tool having a rotating bit of convoluted longitudinal profile for cutting a plurality of slots in a disk, the nozzle comprising:

at least one coolant inlet;

at least one coolant outlet having a convoluted section and positioned to direct a coolant stream tangentially at the bit in a direction of rotation of the bit; and

internal surface portions defining one or more passageways between the at least one coolant inlet the and the at least one coolant outlet.

- 2. (Original) The nozzle of claim 1 wherein the internal surface portions are formed in a laser sintered ceramic body.
- 3. (Currently amended) The nozzle of claim 1 wherein:

the at least one coolant outlet includes a first outlet and the nozzle further comprises a first guide surface positioned to direct the coolant stream of the first outlet toward the slot so that:

with the bit aside the slot between the disk and the first outlet, the coolant stream of the first outlet passes laterally between the bit and the first guide surface; and the at least one coolant outlet includes a second outlet and the nozzle further comprises a second guide surface positioned to direct the coolant stream of the second outlet toward the slot so that:

with the bit aside the slot between the disk and the second outlet, the coolant stream of the second outlet passes laterally between the bit and the second guide surface.

- 4. (Currently amended) The nozzle of claim 1 3 wherein the at least one coolant outlet comprises first and second outlets are respectively on first and second sides of a disk-receiving space.
- 5. (Currently amended) The nozzle of claim ± 3 in combination with the machine tool and

bit and wherein the nozzle is shiftably mounted to permit the nozzle to be shifted between an operative condition wherein the nozzle blocks longitudinal extraction of the disk from the machine and a cleared condition in which the nozzle does not block said extraction.

- 6. (Original) A coolant nozzle for use on a machine tool having a rotating bit for shaping a slot in a workpiece, the nozzle comprising:
 - a gap for accommodating the workpiece in an operative position;
 - at least one coolant inlet;
- a first coolant outlet positioned to direct a first coolant stream toward the workpiece from a first side of the workpiece;
- a second coolant outlet positioned to direct a second coolant stream toward the workpiece from a second side of the workpiece;
 - a first guide surface positioned to direct the first coolant stream toward the slot; and a second guide surface positioned to direct the second coolant stream toward the slot.
- 7. (Original) The coolant nozzle of claim 6 wherein the first and second guide surfaces face in substantially opposite directions.
- 8. (Original) The coolant nozzle of claim 6 wherein the first and second guide surfaces have convoluted sections corresponding to convoluted first and second side portions of the slot as shaped by the bit.
- 9. (Original) The coolant nozzle of claim 8 wherein first and second coolant outlets have convoluted sections corresponding to said first and second side portions of the slot as shaped by the bit.
- 10. (Original) The coolant nozzle of claim 6 wherein the first and second guide surfaces and first and second outlets are on first and second arms of a single sintered ceramic element.
- 11. (New) The nozzle of claim 1 in combination with said disk and wherein the at least one

coolant outlet is positioned to direct said coolant stream at the bit as the bit cuts said slots in the disk.

- 12. (New) The nozzle of claim 11 wherein the internal surface portions are formed in a laser sintered ceramic body.
- 13. (New) A coolant nozzle for use on a machine tool having a rotating bit of convoluted longitudinal profile for cutting a plurality of slots in a disk, the nozzle comprising:

at least one coolant inlet;

at least one coolant outlet having a convoluted section corresponding to convoluted portions of the slots as shaped by the bit and positioned to direct a coolant stream tangentially at the bit in a direction of rotation of the bit; and

internal surface portions defining one or more passageways between the at least one coolant inlet and the at least one coolant outlet.

- 14. (New) The nozzle of claim 13 wherein the internal surface portions are formed in a laser sintered ceramic body.
- 15. (New) A coolant nozzle for use on a machine tool having a rotating bit of convoluted longitudinal profile for cutting a plurality of slots in a disk, the nozzle comprising:

at least one coolant inlet:

at least one coolant outlet having a convoluted section and positioned to direct a coolant stream tangentially at the bit in a direction of rotation of the bit;

a first guide surface positioned to direct the coolant stream toward the slot so that, with the bit aside the slot between the disk and the first outlet, the coolant stream of a first outlet of said at least one coolant outlet passes laterally between the bit and the first guide surface; and

internal surface portions defining one or more passageways between the at least one coolant inlet and the at least one coolant outlet.

16. (New) The nozzle of claim 15 wherein the internal surface portions are formed in a laser

sintered ceramic body.

17. (New) A coolant nozzle for use on a machine tool having a rotating bit of convoluted longitudinal profile for cutting a plurality of slots in a disk, the nozzle comprising:

at least one coolant inlet;

at least one coolant outlet having a convoluted section and positioned to direct a coolant stream tangentially at the bit in a direction of rotation of the bit, the at least one coolant outlet comprising first and second outlets on first and second sides of a disk-receiving space; and

internal surface portions defining one or more passageways between the at least one coolant inlet and the at least one coolant outlet.

- 18. (New) The nozzle of claim 17 wherein the internal surface portions are formed in a laser sintered ceramic body.
- 19. (New) A combination of a coolant nozzle and a machine tool comprising: the machine tool having a rotating bit of convoluted longitudinal profile for cutting a plurality of slots in a disk; and

the nozzle comprising:

at least one coolant inlet;

at least one coolant outlet having a convoluted section and positioned to direct a coolant stream tangentially at the bit in a direction of rotation of the bit; and

internal surface portions defining one or more passageways between the at least one coolant inlet and the at least one coolant outlet, the nozzle being shiftably mounted to permit the nozzle to be shifted between an operative condition wherein the nozzle blocks longitudinal extraction of the disk from the machine and a cleared condition in which the nozzle does not block said extraction.

20. (New) The nozzle of claim 19 wherein the internal surface portions are formed in a laser sintered ceramic body.